



self specification brochure

Channel Drainage

0151 422 9747
www.polycon.co.uk

Self **eco** 100
Self **prem** 100, 150 & 200

Self 100 / **eco** drainage system

What is the Self eco?

The **Polycon Self Eco** system is part of the Polycon Urban Range and the smallest of the Self channels making it perfect for projects where accessibility is vital. The polymer concrete used in this range has great

resistance to temperature changes and a smooth waterproof surface making it ideal for all types of urban and domestic applications. A full range of gratings and accessories are available for the Self eco.



Self eco 100 is ideal for kitchens

Applications

- Driveways
- Patios
- Garden Paths
- Threshold Drainage
- Houses
- Playgrounds
- Pool Areas
- Pedestrian Areas
- Garages

Load Classes **A15 - B125**

The Self **Eco** can withstand up to **B125** loading



A15



B125

Conformity

Manufactured in compliance with ISO 9001:2000

Certified in compliance with EN1433

Fully CE Certified with declaration of performance certificate

Self 100 / eco channel

The **Self 100 Eco** has overall heights of 60mm, 80mm and 100mm with **multiple click in gratings** to choose from the Self eco 100 is a great small-scale channel to suit most domestic and urban applications

Load classes: **A, B** Overall width: **120mm**

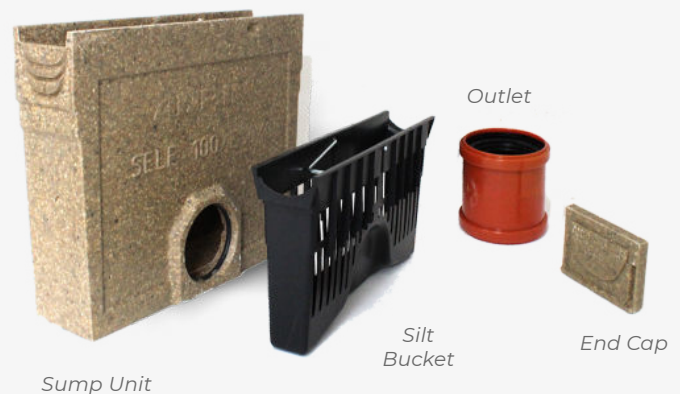
Height: **60mm, 80mm, 100mm**



Accessories

The **Self Eco system** comes with a complete range of accessories including a **sump**, a **foul air trap**, an **end cap** and an **end cap outlet**.

The sump acts as a filter to help collect silt and promote the flow of water. The foul air trap captures any foul air. The end cap is used at the end of the run to stop the water, and the end cap outlet is what is used to connect the channel to the drain.



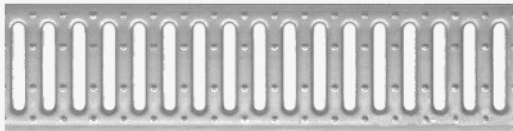
Ref	Description	Height (h)	Invert Height	Overall Width	Weight (kg)	Load Class	Vertical / Horizontal Outlet
SELF.ECO.100.60.C	Self Eco 100.60 Channel 1m	60mm	45mm	120mm	5.3	A,B	110mm
SELF.ECO.100.80.C	Self Eco 100.80 Channel 1m	80mm	65mm	120mm	5.5	A,B	110mm
SELF.ECO.100.100.C	Self Eco 100.100 Channel 1m	100mm	85mm	120mm	7.1	A,B	110mm
SELF.ECO.100.S	Self 100 Sump Unit	400mm	380mm	120mm	14.8	A,B	110mm
SELF.100.EC	Self 100 End Cap	100mm	n/a	120mm	0.4	A,B	n/a
SELF.100.O	Self 100 Outlet	100mm	n/a	120mm	0.8	A,B	110mm

Self 100 / **eco** gratings

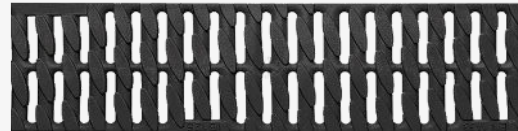
The full range of gratings for the **Self eco 100** including Galvanised, Ductile Iron, and Composite gratings

*No extra tools or bolts are required to keep the gratings down, they simply click in to place

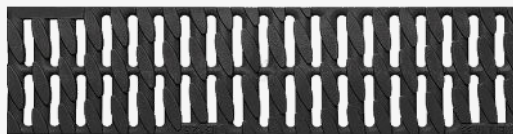
*Stainless Steel / Galvanised
Slotted Heel Guard*



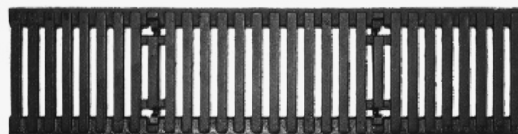
Ductile Iron OvalGrip



Composite OvalGrip



Ductile Iron Slotted



Galvanised / Stainless Steel Offset Paveslot

B125 paveslots sits directly on top of the channel and lets paving and blocks to be set flush again the slot making for discreet drainage.

Upstand: **60mm** Loading: **B125**

Width: **120mm** Slot: **10mm**

Ref	Description	Length (mm)	Width (mm)	Weight (kg)	Load Class
GR. 100.S.S	Slotted Grating, Stainless Steel	1000mm	120mm	1.1	A
GR. 100.S.G	Slotted Grating, Galvanised	1000mm	120mm	1.0	A
GR. 100.O.DI	OvalGrip, Ductile Iron	500mm	120mm	2.5	A,B
GR. 100.O.C	OvalGrip, Composite	500mm	120mm	0.9	A,B
GR. 100.S.DI	Slotted, Ductile Iron	500mm	120mm	2.7	A,B
GR.60.P.G	Paveslot, Galvanised	1000mm	120mm	4.9	A,B
GR.60.P.SS	Paveslot, Stainless Steel	1000mm	120mm	5.2	A,B



Self 100 prem drainage system

What is the Self prem 100?

The **Polycon Self 100 Prem** channel is part of the urban range and is ideal for all types of **urban and domestic** applications. It's manufactured from **Polymer Concrete** which has a great resistance to mechanical, temperature, and chemical changes. The robust and versatile channel has a smooth water proof surface that allows for quick water flow drainage aswell as having good adhesion to most surfaces.

When this channel is exposed to the elements it has great long term durability with respect to freeze and thaw cycles and has low permeability to water and aggressive weather conditons.

With this drainage system there is a complete range of **accessories** that are key to the impact of the system itself and to make sure the system is kept maintained and accessible. The system features three clip in gratings for easy installation and access allowing up to **C250** Loading.

Applications:

- Driveways
- Patios
- Garden Paths
- Threshold Drainage
- Houses
- Playgrounds
- Pool Areas
- Pedestrian Areas
- Garages

● Load Classes A15 - C250

The Lite Prem 100 can withstand up to **C250** loading.



A15



B125



C250



Conformity

Manufactured in compliance with ISO 9001:2000

Certified in compliance with EN1433

Fully CE Certified with declaration of performance certificate



Self 100 prem

A robust, heavy duty, polymere concrete channel for all urban and domestic applications.

Coming in a variety of depths ranging from **80mm to 250mm** this range is very versatile, Polycon's locking Bolt & Bar system also provides a secure method of keeping the gratings down

Loading **A, B, C** Overall width: **130mm** Heights: **80mm, 150mm, 200mm, 250mm**



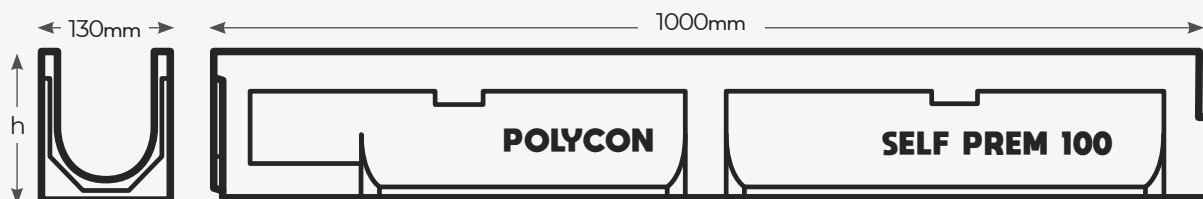
100mm Depth



Varying Depths

The Self 100 Prem channel is available in 4 depths, **80mm, 150mm, 200mm & 250mm** making it perfect for a number of different applications and where environmental restrictions are a factor. Depending on your needs and how much water drainage is required will determine which depth you will need

Specifications



Note the diagram used in the example above is for the Self Prem 100 - 150mm version*

Ref	Description	Height (h)	Invert Depth	Overall Width	Weight (kg)	Load Class	Vertical Outlet
SELF.P.100.80.CH	Self Prem 100.80 Channel 1m	80mm	60mm	130mm	8	A,B,C	110mm
SELF.P.100.150.CH	Self Prem 100.150 Channel 1m	150mm	130mm	130mm	11	A,B,C	110mm
SELF.P.100.200.CH	Self Prem 100.200 Channel 1m	200mm	180mm	130mm	18	A,B,C	110mm
SELF.P.100.250.CH	Self Prem 100.250 Channel 1m	250mm	230mm	130mm	25	A,B,C	110mm



Self 100 prem accessories

The Self Prem 100 drainage system comes complete with a range of accessories that are key to the maintenance of the system and to help the removal of water out of the system into exterior drainage.

Sump Unit

The Sump & Silt basket (included) can be connected to the channel and stops unwanted debris by acting as a filter

Foul Air Trap / Leaf Trap

The Foul air trap successfully traps any unwanted dirt and foul smells keeping the drainage system as fresh as possible

End Cap

The end cap is used to prevent water from leaving the channel and it should be used at the end of the highest point in the drain

Outlet

The end cap outlet is used to make a connection from channel to exterior drainage pipes

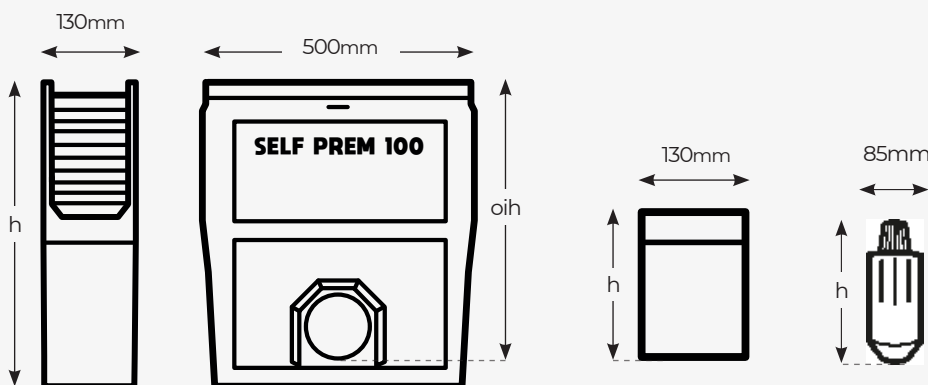
Sump Unit

Silt Basket

End Cap

Foul Air Trap

Outlet

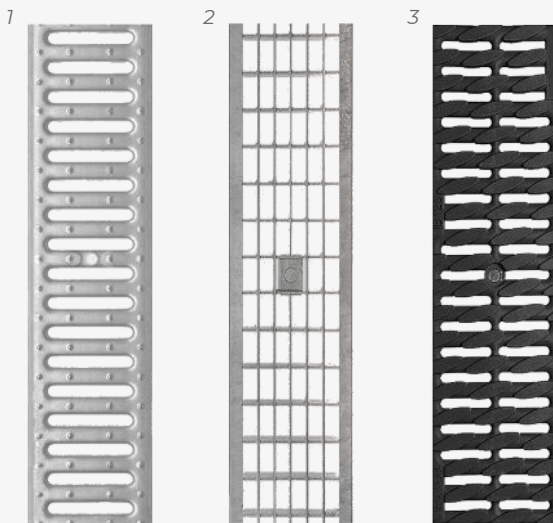


Ref	Description	Height (h)	Invert Height	Overall Width	Weight (kg)	Load Class	Vertical / Horizontal Outlet
SELF.PREM.100.SU	Self 100 Sump Unit	563mm	543mm	130mm	28	A,B,C	110mm
SELF.PREM.100.EC	Self 100 End Cap	100mm	n/a	130mm	0.4	A,B,C	n/a
SELF.PREM.100.O	Self 100 Outlet	100mm	n/a	130mm	0.8	A,B,C	110mm
SELF.PREM.100.FAT	Self 100 Foul Air Trap	90mm	n/a	85mm	0.4	A,B,C	110mm



Self 100 prem gratings

The Self Prem 100 features three styles of gratings. A bolt is used to secure the grating down in the centre of the grate, which fastens into the bar which is situated and secured within the channel.



1. A15 Stainless Steel / Galvanised Slotted

A discreet Steel grating. Available in either Stainless Steel or Galvanised Steel

2. B125 Galvanised / Stainless Steel Mesh

A robust heavier duty grating with narrow HeelSafe slots

3. C250 Ductile Iron OvalGrip

This light-weight but strong grating comes in our popular oval slotted design

Galvanised / Stainless Steel Offset Paveslot

B125 paveslots sits directly on top of the channel and lets paveblocks to be set flush again the slot making for discreet drainage.

Upstand: **60mm** Loading: **C250**

Width: **130mm** Slot: **10mm**



Ref	Description	Overall Width	Slot Width	Weight (kg)	Length	Load Class
GR.S100.S.G	Slotted Grating, Galvanised	130mm	6mm	1.3/2.4	500/1000mm	A
GR.S100.S.SS	Slotted Grating, Stainless Steel	130mm	8mm	1.5/2.6	500/1000mm	A
GR.S150.M.G	Mesh Grating, Stainless Steel	130mm	25/15mm	1.8/3.9	500/1000mm	A, B
GR.S150.M.SS	Mesh Grating, Galvanised	130mm	25/15mm	1.6/3.7	500/1000mm	A, B
GR.S100.L.DI	Oval Slotted, Ductile Iron	130mm	8mm	2.5	500mm	A, B, C
GR.S100.P.G	Paveslot, Galvanised	130mm	10mm	6.8	1000mm	A, B, C
GR.S100.P.S	Paveslot, Stainless Steel	130mm	10mm	6.9	1000mm	A, B, C



Self 150 prem drainage system

What is the Self prem 150?

The **Polycon Self 150 Prem** channel is part of the urban range and is ideal for all types of **urban and domestic** applications. Unlike the Self 100 this channel has a **200mm Width**, comes in a variety of 4 different depths and is much more capable of carrying, storing, and draining larger amounts of water where necessary.

All self channels are manufactured from **Polymer Concrete** which has a great resistance to mechanical, temperature, and chemical changes. The robust and versatile channel has a smooth water proof surface that allows for quick water flow drainage as well as having good adhesion to most surfaces.

● Load Classes A15 - C250

The Self Prem 150 can withstand up to **C250** loading



A15



B125



C250

When this channel is exposed to the elements it has great long term durability with respect to freeze and thaw cycles and has low permeability to water and aggressive weather conditions.

With this drainage system there is a complete range of **accessories** that are key to the impact of the system itself and to make sure the system is kept maintained and accessible. The system features Bolt & Bar locking gratings for convenience and security going up to **C250**.

Applications:

- Driveways
- Patios
- Garden Paths
- Threshold Drainage
- Houses
- Playgrounds
- Pool Areas
- Pedestrian Areas
- Garages



Conformity

Manufactured in compliance with ISO 9001:2000

Certified in compliance with EN1433

Fully CE Certified with declaration of performance certificate



Self 150 prem

With far more capacity to hold water this is the perfect channel for larger domestic projects where increased rainfall and vast amounts of water need to be drained quickly. Coming in 4 different depths and each allowing up to C250 loading

Heights: **80mm, 120mm, 150mm, 195mm** Loading **A, B, C**

Overall width: **200mm**



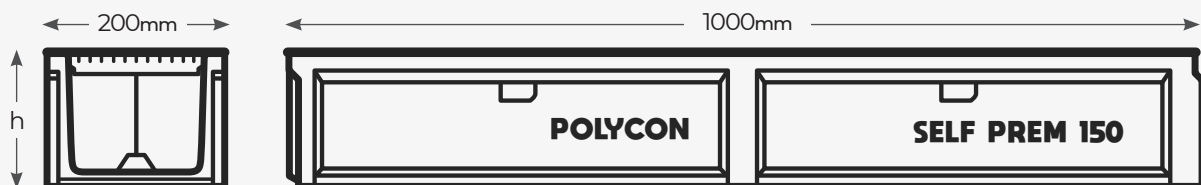
100mm Depth



Varying Depths

Available in the following depths, **80mm, 120mm, 150mm & 195mm** this channel has the range to suit a lot of different applications and is capable of not only carrying more water but also allowing the water to pass through the larger grates at a higher rate of speed. This means your area will be drained much more efficiently

Specifications



Note the diagram used in the example above is for the Self Prem 150 - 150mm version*

Ref	Description	Height (h)	Invert Depth	Overall Width	Weight (kg)	Load Class	Vertical Outlet
SELF.P.150.80.CH	Self Prem 150.80 Channel 1m	80mm	70mm	200mm	12	A,B,C	160mm
SELF.P.150.120.CH	Self Prem 150.120 Channel 1m	120mm	110mm	200mm	13	A,B,C	110mm
SELF.P.150.150.CH	Self Prem 150.150 Channel 1m	150mm	140mm	200mm	13.8	A,B,C,	160mm
SELF.P.150.195.CH	Self Prem 150.195 Channel 1m	195mm	185mm	200mm	16.8	A,B,C,	110mm

Self 150 prem accessories

The Self Prem 150 drainage system comes complete with a unique set of accessories specifically suited to the 150 channel. They are key to the maintenance of the system and to help the removal of water out of the system into exterior drainage.

Sump Unit

With a much larger sump than the Self 100 this has the ability to catch big amount of debris that may end up in your drainage system

Foul Air Trap

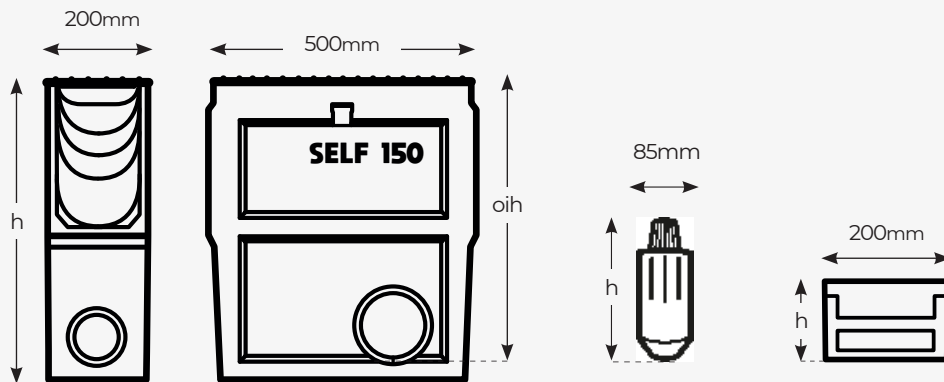
The Foul air trap successfully traps any unwanted dirt and foul smells keeping the drainage system as fresh as possible.

End Cap

The end cap is used to prevent water from leaving and it should be used at the end of the highest point in the drain

Outlet

The end cap outlet is used to make a connection from channel to exterior pipes

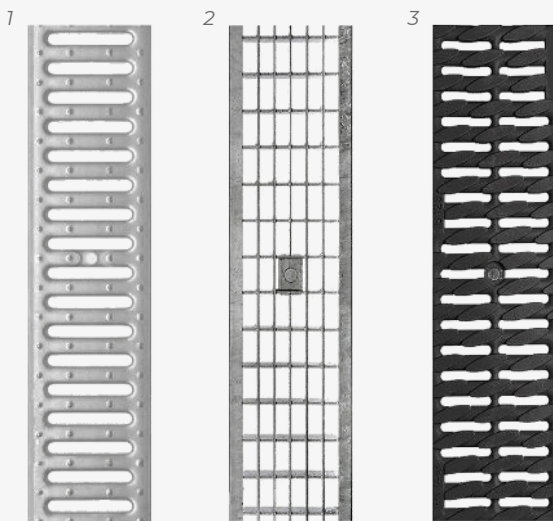


Ref	Description	Height (h)	Invert Height	Overall Width	Weight (kg)	Load Class	Vertical / Horizontal Outlet
SELF.PREM.150.SU	Self 150 Sump Unit	585mm	565mm	200mm	21	A,B,C	200mm
SELF.PREM.150.EC	Self 150 End Cap	80 - 195mm	n/a	200mm	0.8	A,B,C	n/a
SELF.PREM.150.ECO	Self 150 End Cap Outlet	80 - 195mm	n/a	200mm	1.2	A,B,C	110mm
SELF.PREM.150.ECO	Self 150 Foul Air Trap	90mm	n/a	85mm	0.4	A,B,C	110mm



Self 150 premier gratings

The Self Premier 150 features three styles of click in gratings. The Bolt & Bar locking mechanism used on these gratings makes for a secure fit without worry that the gratings will uplift under pressure



1. A15 Stainless Steel / Galvanised Slotted

A discreet Steel grating.
Available in either Stainless Steel or Galvanised Steel.

2. B125 Stainless Steel / Galvanised Mesh

A mesh slotted grating with an industrial look to it, perfect for increased water flow

3. C250 Ductile Iron Oval Grip

This light-weight but strong grating comes in our popular oval slotted design.



Galvanised / Stainless Steel Offset Paveslot

B125 paveslots sits directly on top of the channel and lets paveblocks to be set flush again the slot making for discreet drainage.

Upstand: **60mm** Loading: **C250**

Width: **200mm** Slot: **10mm**

Ref	Description	Overall Width	Slot Width	Weight (kg)	Length	Load Class
GR.S150.S.G	Slotted Grating, Galvanised	200mm	8mm	6.5/13	500/1000mm	A, B
GR.S150.S.SS	Slotted Grating, Stainless Steel	200mm	8mm	6.8/13.6	500/1000mm	A, B
GR.S150.M.G	Mesh Grating, Galvanised	200mm	30/20mm	7.5/15	500/1000mm	A, B
GR.S150.M.SS	Mesh Grating, Stainless Steel	200mm	30/20mm	7.6/15.2	500/1000mm	A, B
GR.S150.O.DI	OvalGrip Slotted, Ductile Iron	200mm	8mm	8.5	500mm	A, B, C
GR.S150.P.G	PaveSlot, Galvanised	200mm	10mm	10.2	1000mm	A, B, C
GR.S150.P.S	PaveSlot, Stainless Steel	200mm	10mm	10.5	1000mm	A, B, C



Self 200 **prem** drainage system

What is the Self prem 200?

The Self 200 Prem channel is a heavier duty version of the self 100 and 150 channels and is also part of the Urban Range.

With a width of **250mm** making it the largest of our self channels. Best used for when maximum water capacity is needed and the quick removal of heavy rainfall is priority. Like other self channels the strong polymere concrete channel has a slick waterproof surface for the quick removal of water - because of this combined with the larger capacity the water will not build up in your drainage system. Aswell as this the polymere concrete also has a great resistance to mechanical, temperature and chemical changes making it super strong and reliable.

● Load Classes **A15 - C250**

The Self Prem 200 can withstand up to **C250** loading



A15



B125



C250

When this channel is exposed to the elements it has great long term durability with respect to freeze and thaw cycles and has low permeability to water and aggressive weather conditons.

With this drainage system there is a complete range of **accessories** that are key to the impact of the system itself and to make sure the system is kept maintained and accessible. The system features locking Bolt & bars to secure the gratings down.

Applications:

- Driveways
- Patios
- Garden Paths
- Threshold Drainage
- Houses
- Playgrounds
- Pool Areas
- Pedestrian Areas
- Garages



Conformity

Manufactured in compliance with ISO 9001:2000

Certified in compliance with EN1433

Fully CE Certified with declaration of performance certificate



Self 200 prem

At **250mm wide** and with 4 different depths to choose from this channel can withstand the most **extreme weather conditions** and safely and efficiently remove vast amounts of water

Heights: **100mm, 130mm, 150mm, 240mm**

Overall width: **250mm** Loading **A, B, C**



100mm Depth



Varying Depths

Available in the following depths - **100mm, 130mm, 150mm & 240mm** and with heavy duty gratings available to deal with heavier vehicles crossing the channel this is perfect for larger domestic projects

Specifications



Note the diagram used in the example above is for the Self Prem 200 - 150mm version*

Ref	Description	Height (h)	Invert Depth	Overall Width	Weight (kg)	Load Class	Vertical Outlet
SELF.P.200.100.CH	Self Prem 200.100 Channel 1m	100mm	90mm	250mm	17	A,B,C	160mm
SELF.P.200.130.CH	Self Prem 200.130 Channel 1m	130mm	120mm	250mm	17.9	A,B,C	110mm
SELF.P.200.150.CH	Self Prem 200.150 Channel 1m	150mm	140mm	250mm	18.2	A,B,C	160mm
SELF.P.200.240.CH	Self Prem 200.240 Channel 1m	240mm	230mm	250mm	22.8	A,B,C	110mm



Self 200 prem accessories

The **Self Prem 200** system comes with its own set of specific accessories which are designed to match with the self 200 channel and its dimensions. The accessories ensure a quick and easy installation and includes a sump, a foul air trap, an end cap and end cap outlet

Sump Unit

With a much larger sump than the Self 100 & 150 this has the ability to catch big amount of debris that may end up in your drainage system

Foul Air Trap / Leaf Trap

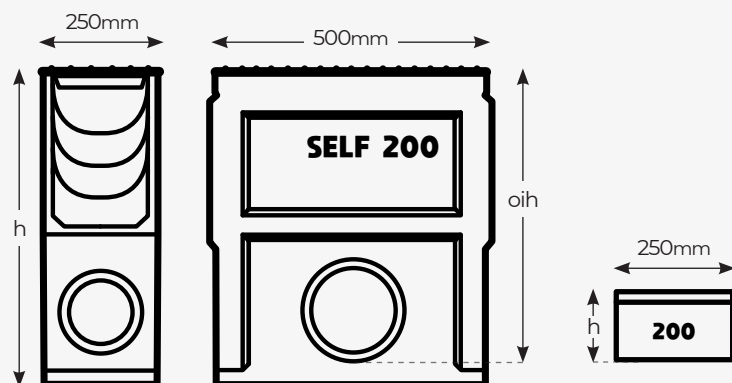
The Foul air trap successfully traps any unwanted dirt and foul smells keeping the drainage system as fresh as possible

End Cap

The end cap is used to prevent water from leaving and it should be used at the end of the highest point in the drain

Outlet

The end cap outlet is used to make a connection from channel to exterior drainage pipes

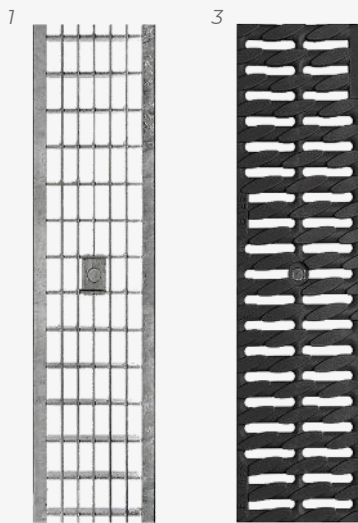


Ref	Description	Height (h)	Invert Height	Overall Width	Weight (kg)	Load Class	Vertical / Horizontal Outlet
SELF.PREM.200.SU	Self 200 Sump Unit	585mm	565mm	250mm	38	A,B,C	110/160mm
SELF.PREM.200.EC	Self 200 End Cap	100/240mm	n/a	200?	1.3	A,B,C	n/a
SELF.PREM.200.ECO	Self 200 End Cap Outlet	100/240mm	n/a	200?	1.8	A,B,C	160mm



Self 200 prem gratings

The Self Prem 200 features two styles of click in gratings. The Bolt & Bar locking mechanism used on these gratings makes for a secure fit without worry that the gratings will uplift under pressure



1. B125 Stainless Steel / Galvanised Mesh

A mesh slotted grating with an industrial look to it, perfect for increased water flow

2. C250 Ductile Iron OvalGrip

This light-weight but strong grating comes in our popular oval slotted design.



Galvanised / Stainless Steel Offset Paveslot

B125 paveslots sits directly on top of the channel and lets paveblocks to be set flush again the slot making for discreet drainage.

Upstand: **60mm** Loading: **C250**

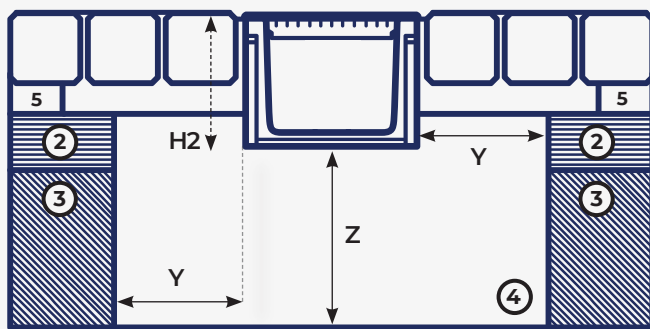
Width: **250mm** Slot: **10mm**

Ref	Description	Overall Width	Slot Width	Weight (kg)	Length	Load Class
GR.S200.M.G	Mesh Grating, Galvanised	250mm	30/20mm	7.5/15	500/1000mm	A, B
GR.S200.M.SS	Mesh Grating, Stainless Steel	250mm	30/20mm	7.6/15.2	500/1000mm	A, B
GR.S200.O.DI	OvalGrip Slotted, Ductile Iron	250mm	8mm	8.5	500mm	A, B, C
GR.S200.P.S	Paveslot, Stainless Steel	250mm	10mm	14.6	1000mm	A, B, C
GR.S200.P.G	Paveslot, Galvanised	250mm	10mm	14.9	1000mm	A, B, C

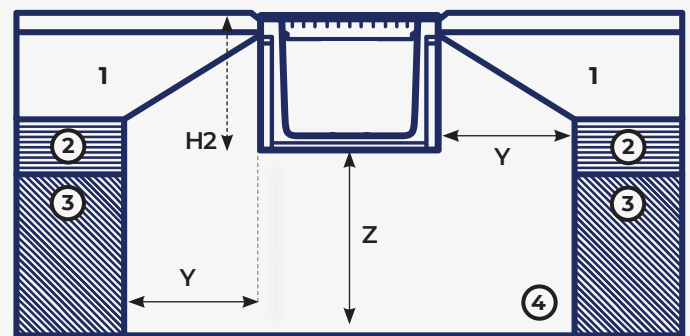
Installation Guide

Grounds conditions must be suitable and all dimensions shown are the minimum requirement. Engineering advice should be taken where necessary and any questions should be directed to Polycon's technical team through emailing us at technical@polycon.co.uk or by calling us on **0151 424 9747**

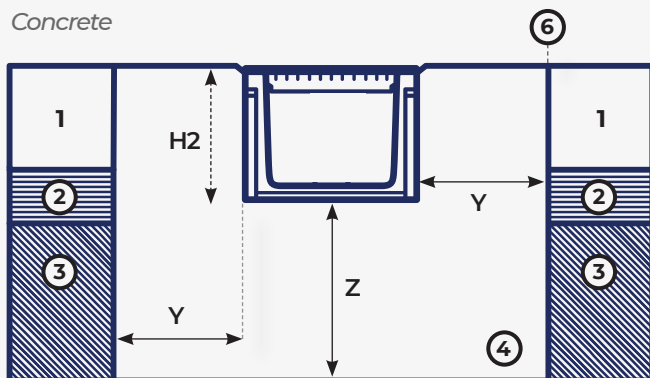
BlockPaving



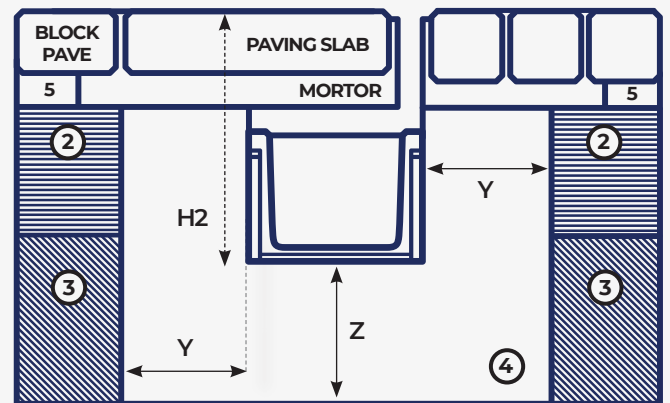
Tarmac



Concrete



PaveSlot



Load Class	A15	B125	C250
H2 - Channel Height	Channel Height	Channel Height	Channel Height
Y - Minimum Surround	100mm	150mm	150mm
Z - Minimum Surround	100mm	150mm	150mm
T1 - Minimum Depth	40mm	40mm	40mm
T2 - Maximum Depth	95mm	55mm	55mm

1	2	3	4	5	6	** Minimum Concrete Haunch 25 N/mm ²
Concrete	Sub Base	Earth	Concrete Haunch	Sand Layer	Expansion Joint	Detail A Allow for overbuild of 3mm to 5mm above the grating surfaces



Polycon Surface Water Drainage

Widnes Business Park, Foundry Lane, Widnes, WA8 8UB, England

Email: info@polycon.co.uk

Tel: 0151 422 9747

Visit our website for our full range of products at www.polycon.co.uk